

Amendments to the Specification:

Please amend the title as follows:

DISPLAY PROCESSING DEVICE, DISPLAY ~~CONTROL~~ PROCESSING
METHOD AND DISPLAY PROCESSING CONTROL PROGRAM

Please amend the paragraph at page 1, lines 11-14 as follows:

The present invention relates to a display processing device, display ~~control~~ processing method and display processing control program which displays images without performing a particular display control operation.

Please amend the paragraph at page 2, line 23 to page 3, line 12 as follows:

The present invention has been made in view of the circumstances mentioned above. Accordingly, the purpose of the present invention is to provide a display processing device, a display ~~control~~ processing method and a display processing control program in which the image display processing can be performed by simpler data processing without needing the complicated file management and data

management regarding the image display processing. In accordance with the present invention, ~~the there is provided a display processing device for achieving the above-described objects which comprises a storage means for storing an image file; a display means for displaying an image based on said the image file stored in said the storage means; and a display control means for controlling the display of said image based on the image display control information included in an image file corresponding to the image displayed on said display means to return directly to a first display state when switched to a second display state upon changing the display sequentially to be significantly different from the first display state, wherein the image from the first display state to the second display state is different from the first display state, based on image display control information included in the same image file as the image file included in the image displayed on the display means.~~

Please amend the paragraph at page 3, lines 13-16 as follows:

In accordance with another aspect of the present invention, ~~the display control method for displaying an~~

~~image based on an image file stored in memory according to the image display control information described in the is inserted into a text description area of included in the image file.~~

Please add a new paragraph at page 3, after line 16 as follows:

In yet another aspect of the present invention, the display control means commences changing the display of the image based on detected timing of the image display control information included in the image file.

Please amend the paragraph at page 3, lines 17-24 as follows:

In accordance with the present invention, ~~the there is provided a display control processing method which comprises the steps of a directional step for directing the display of an image based on an image file; an extraction step for extracting the image display control information included in the image file when display of the image is directed in said directional step; and a control step for controlling the display of said image based on the image display control information extracted in said extraction step acquiring an~~

image included in an image file stored in a storage section for displaying on a display; controlling the display to return directly to a first display state when switched to a second display state upon changing the display sequentially to be significantly different from the first display state, wherein the image included in the image file from the first display state to the second display state is different from the first display state, based on image display control information included in the acquired image file.

Please amend the paragraph at page 3, line 25 to page 4, line 7 as follows:

In accordance with the present invention, there is provided a the display processing program for making a computer execute comprises the steps of a directional step for directing the display of an image based on an image file; an extraction step for extracting the image display control information included in the image file when display of the image is directed in said directional step; and a control step for controlling the display of said image based on the image display control information extracted in said extraction step computer-readable storage medium having a display control program stored thereon that is executable by

a computer to perform functions of: acquiring an image included in an image file stored in a storage section for displaying on a display; and controlling the display to return directly to a first display state when switched to a second display state upon changing the display sequentially to be significantly different from the first display state, wherein the image included in the image file from the first display state to the second display state is different from the first display state, based on image display control information included in the acquired image file.

Please amend the paragraph at page 4, lines 18-19 as follows:

FIG. 2 is a conceptual diagram showing the PNG image format file in conventional prior art;

Please amend the paragraph at page 4, line 20 as follows:

FIG. 3 is a conceptual diagram showing a type of chunk in conventional prior art;

Please amend the paragraphs at page 4, lines 21-22 as follows:

FIG. 4 is a conceptual diagram showing the structure of a chunk in conventional prior art;

Please amend the paragraphs at page 4, lines 23-24 as follows:

~~FIGS.~~ FIGS. 5A and 5B are conceptual diagrams showing an example of the text chunk data in conventional prior art;

Please amend the paragraph at page 6, lines 18-20 as follows:

FIG. 26 is a mimetic diagram showing an example of the file structure when inserting additional information into an Exif standard image file in conventional prior art being used according to the fifth embodiment;

Please amend the paragraph at page 9, lines 16-24 as follows:

FIG. 2 is a conceptual diagram showing the PNG image format file 100. The PNG image file format consists of a number of chunks called independent blocks of data. The chunks include the IHDR header chunk 101 which contains the basic information about the image data as being a PNG image

file format; the ancillary chunk 102 which describes the text, color transparency, and the like; the IDAT image data chunk 103 which stores the actual image data; and the IEND image trailer chunk 104 which marks the end of the PNG file or data stream.

Please amend the paragraph at page 9, line 25 to page 10, line 5 as follows:

In the chunks, as shown in FIG. 3, many types are available. Among these is the text (tEXt) chunk 105 which has a free insertion point within the file and, if the contents are also text codes, it can be constituted freely. ~~The~~ With the chunk structure, as shown in FIG. 4, since dividing the data length is possible, a plurality of chunks can be written in order arbitrarily and can constitute the entire data.

Please amend the paragraph at page 10, lines 6-11 as follows:

~~FIGS.~~ FIGS. 5A and 5B are conceptual diagrams showing examples of the text chunk data. The text chunk comprises two elements, the "keyword" 106 and the actual "text" 107. Between these, the original data with the "keyword" is

defined and image browsing software performs a predetermined operation when judged that this keyword has been added.

Please amend the paragraph at page 11, lines 19-23 as follows:

Further, if the pointer is at the end of the file, the operation judges whether or not the end command has been directed (Step S30). If the end has not been directed, the operation returns to Step ~~S14~~ S12 and the processing mentioned above is repeated. However, if end is directed at Step S30, the processing will be completed.

Please amend the paragraph at page 12, line 26 to page 13, line 4 as follows:

Next, the operation judges whether or not the end of playback of the image has been directed (Step S30). If end has not been directed, the operation returns to Step ~~S14~~ S12 and the processing mentioned above is repeated. Conversely, if end has been directed at Step S30, processing will be terminated.

Please amend the paragraph at page 16, lines 3-11 as follows:

On the other hand, when the function key (playback key) is depressed, the pointer is located at the top of the text chunk of the image file corresponding to the displayed image (Step S46). Next, the operation judges whether or not the position of the pointer ~~is indicated~~ indicates the text chunk (Step S48). When the pointer ~~is not indicated in~~ does not indicate the text chunk, the pointer is moved to the next chunk (Step S50), and the operation then judges whether or not the position of the pointer ~~is indicated~~ indicates the end of the chunk (Step S52).

Please amend the paragraph at page 16, lines 12-17 as follows:

When the pointer is located at the end of the file, the operation judges whether or not the processing end has been directed (Step S64). If the processing end has not been directed, the operation then returns to Step ~~S46~~ S42, and repeats the above-mentioned processes. On the other hand, when the processing end is directed at Step S64, the operation will be completed.

Please amend the paragraph at page 16, lines 18-25 as follows:

On the other hand, if the pointer is not at the end of the file, the operation will return to Step S48, the process mentioned above will be repeated and the image file text chunk will be searched. When the text chunk is discovered, the operation judges whether or not the keyword ~~indicating has been inserted which indicates~~ insertion of the image display control information has been inserted (Step S54). If the keyword is not inserted, the operation proceeds to Step S50 and continues searching for the text chunk.

Please amend the paragraph at page 17, lines 16-21 as follows:

When the playback of image is finished, the operation judges whether or not the process end is directed (Step S64). When the process end has not been directed, the operation returns to Step ~~S44 S42~~, and repeats the above mentioned processes. On the other hand, when the process end is ordered at Step S64, the operation finishes this process.

Please amend the paragraph at page 19, line 19 to page 20,
line 1 as follows:

On the other hand, when the function key (playback) is operated, the pointer is located at the top of the text chunk of the image file corresponding to the displayed image (Step S76). Next, the operation judges whether or not the position of the pointer ~~is indicated~~ indicates the text chunk (Step S78). When the pointer ~~is not indicated~~ does not indicate the text chunk, the pointer is moved to the next chunk (Step S80), and the operation then judges whether or not the position of the pointer ~~is indicated~~ indicates the end of the chunk (Step S82).

Please amend the paragraph at page 20, lines 2-7 as follows:

When the pointer is located at the end of the file, the operation judges whether or not the processing end has been directed (Step S94). If the processing end has not been directed, the operation then returns to Step ~~S74~~ S72, and repeats the above mentioned processes. On the other hand, when the processing end is directed at Step S94, the operation finishes this process.

Please amend the paragraph at page 21, lines 2-11 as follows:

In the image display processing, the operation is carried out according to the flowchart ~~shown to~~ shown in FIG. 17. At first, the clipping is carried out for the image according to the origin coordinate "x1, y1" and the display pixel size "x2, y2" (Step S100). Next, the operation judges whether or not the size of image is ~~smaller~~ larger than the display screen size (Step S102). When the display pixel size "x2, y2" is ~~smaller~~ larger than the display screen size of the cellular phone, the clipped image is reduced and displayed as shown in FIG. 18A (Step S104). The operation then returns to the flowchart shown in FIG. 16.

Please amend the paragraph at page 21, lines 12-19 as follows:

On the other hand, when the display pixel size "x2, y2" is not ~~smaller~~ larger than the display screen size of the cellular phone, the operation judges whether or not the size of image is ~~larger~~ smaller than the display screen size (Step S106). When the display pixel size "x2, y2" is ~~larger~~ smaller than the display screen size of the cellular phone, the clipped image is enlarged and is displayed as shown in

FIG. 18B (Step S108). The operation then returns to the flowchart ~~showing~~ shown in FIG. 16.

Please amend the paragraph at page 21, lines 20-25 as follows:

Next, when the playback of image is finished, the operation judges whether the process end is ordered (Step S94). When the process end is not ordered, the operation returns to Step ~~S74~~ S72, and repeats the above mentioned processes. On the other hand, when the process end is ordered at Step S94, the operation finishes this process.

Please amend the paragraph at page 23, lines 2-17 as follows:

Next, the fourth embodiment according to the present invention will be explained. In the fourth embodiment, in the functions of the ~~mentioned above~~ above-mentioned first embodiment, the position information (i.e. this information indicates a position such as image pick-up location; latitude and longitude) can be designated in the text chunk of the image file. When the above position information is inserted into the text chunk of the image file, the reception side transmits the inserted position information

and the position information of itself to a map server which provides map information on a network through the network such as the Internet, and then obtains the map information of the range that both position information is included, form from the map server. Furthermore, the reception side enlarges/reduces the map information automatically, and scrolls automatically the map information from present position to the position inserted in the image data.

Please amend the paragraph at page 24, line 20 to page 25, line 18 as follows:

The cellular phone 3b transmits the positional information inserted into the text chunk of the image file which is attached in E-mail received from the cellular phone 3a and the position information of itself to the map information service system 51 through the base transceiver station 53, Web server 522 of the communication service provider 52 and WWW (World Wide Web) 54, and requires the transfer of the map information (image file) of the range that these ~~positiona~~l positional information are included. The map information service system 51 consists of the main system 510, Web server 511, the map information database 512 and the router 513. The map information service system 51

replies the map information (image file) extracted from the map information database 512 to the cellular phone 3b according to the positional information. When the cellular phone 3b obtains the map information, the cellular phone 3b automatically enlarges or reduces the image file, and may automatically ~~scrolls~~ scroll the image file, which is enlarged or reduced, from the present position to the position which is inserted in the image file attached ~~in~~ to the received E-mail. When the map information service system 51 receives the position information from the cellular phones 3a, 3b, the map information service system 51 may transmit the map information of the range that both position information are included. The map information database 512 stores map information of plural kinds of all areas every predetermined distance unit.

Please amend the paragraph at page 25, line 20 to page 26, line 3 as follows:

Next, ~~FIGS.~~ FIGS. 20A and 20B are external views of the cellular phones 3a and 3b applied in the fourth embodiment. Incidentally, as the same reference numbers are shown for the configuration having the same function as the first embodiment, a detailed explanation has been omitted. ~~This~~

In this fourth embodiment, ~~is characterized that~~ the cellular phone 3a comprises at least the photography function and the positional information obtaining function by ~~GPS~~ Global Positioning System (GPS), and the cellular phone 3b comprises at least the positional information obtaining function.

Please amend the paragraph at page 26, line 16 to page 27, line 6 as follows:

Next, FIG. 21 is a block diagram showing a constitution of the cellular phone 3a according to the fourth embodiment. Incidentally, the same reference numbers are shown for the part corresponding to FIG. 1, a detailed explanation has been omitted. In the fourth embodiment, the antenna ATN1, transmitting/receiving section (particularly, receiving function) 20 and the communication controller 21 further comprise a function to receive various information for generating latitude, longitude and time information from a plurality of geodetic satellites 50, 50 In this figure, ~~a~~ an image pick-up module 61 ~~is consisted of~~ includes CCD or CMOS, and takes in color image of a subject through an imaging lens. ~~DSP~~ Digital Signal Processor (DSP) 62 carries out the encoding process for an image taken in by

the image pick-up module 61. The image memory 31 stores image images which are digitized, i.e. ~~are~~ files. This image file is coded by DSP 62, and is compressed by the controller 25.

Please amend the paragraph at page 27, lines 7-20 as follows:

A GPS controller 63 calculates a phase (a difference of a reception timing) of each received electric wave about an electric wave (1.22760G/1.57542 GHz), which is demodulated by the transmitting/receiving section 20 and the communication controller 21, and is transmitted from at least about four geodetic satellites 50, 50, . . . , among the Global Positioning Satellites (~~NAVSTAR~~) NAVigation Satellite Timing And Ranging (NAVSTAR) which the Pentagon launched (twenty four satellites go around the earth at ~~the~~ present). The satellites may be less than four to obtain the positional information, but the precision will deteriorate. Furthermore, the GPS controller 63 obtains the position information which includes latitude, longitude (altitude) information indicating the present position, by carrying out the triangular surveying between the cellular phones 3a, 3b and these land survey satellites 50, 50,

Please amend the paragraph at page 30, line 23 to page 31, line 2 as follows:

When the pointer is at the end of the file, the operation judges whether the processing end is ordered (Step S164 S180). When the processing end is not ordered, the operation ~~then~~ returns to Step S156 S152, and repeats the above-mentioned processes. On the other hand, when the processing end is ordered at Step S164, the operation finishes this process.

Please amend the paragraph at page 33, line 25 to page 35, line 1 as follows:

Next, the fifth embodiment according to the present invention will be explained. In the fifth embodiment, the image file in the function of the fourth embodiment is stored as the image file according to DCF Design rule for Camera File system (DCF) format, for example, by adding information in accordance with Exif Exchangeable image file format (Exif) standard to the compressed image with JPEG Joint Photographic Experts Group (JPEG) format. In Exif standard, the pick-up information, the file information and so on can be recorded to an additional information part

called "tag" in a file. In the fifth embodiment, it is possible to designate the keyword indicating the insertion of the image display control information to the additional information part (user comment tag), and to designate the position information (information indicating the position such as photography place of the image; latitude, longitude) to the GPS Info tag. In the receiving side which receives such ~~the~~ an image file, when the above image display control information and the position information are inserted into the tag information (user comment tag, GPS Info tag) of the received image file, the inserted position information and the position information of the receiving side ~~oneself~~ are transmitted to the map information service system 51 through the network such as WWW 54 as shown in FIG. 19, and the receiving side requests the reply of the map information. Next, the map information of the range that both position information is included, transmitted from the map information service system 51 in response to the above-mentioned request is obtained. Furthermore, the map information is automatically enlarged/reduced, and is automatically scrolled from the present position to the position inserted into the image data.

Please amend the paragraph at page 35, lines 8-23 as follows:

FIG. 26 is a conceptual diagram showing an example of data format of an image file (Exif) 200 being used by the fifth embodiment. The image file of Exif standard consists of a header 201 to distinguish that the image file is an image file of Exif standard, an image additional information 202 which consists of a tag information including various information about image data and a thumbnail image data 205, and a photographed original image data 203. Various information such as the number of the pixels, the compression mode, the model name of the camera, the iris value, shutter speed, photography date, user information, positional information (GPS Info tag) are recorded into tag information 204. In this embodiment, the display processing control for scroll display is recorded to the user comment tag arranged on ~~these~~ the tag information, and the position information (information indicating the position such as photography place of the image; latitude, longitude) is recorded to GPS Info tag, respectively.

Please amend the paragraph at page 40, lines 13-21 as follows:

Furthermore, although the details of an image file of PNG format and an image file (an image file of JPEG format) wherein the tag is set according to the Exif standard have been described in the above-mentioned embodiments, if the image file has an area where a description to correspond to the tag information or the text chunk is permitted, in the image file compressed with MPEG Moving Picture Experts Group (MPEG) format or a compression coding manner based thereon, this invention can be applied in several forms and must not be construed to limit this invention.

And please amend the paragraph at page 42, lines 5-7 as follows:

While the present invention has been described with reference to the preferred embodiments, it is not intended that the invention be not limited by any of the details of the description thereof of the preferred embodiments. The invention includes all embodiments which fall within the scope of the appended claims.